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Title: Comments Relative to My LA Medal Award

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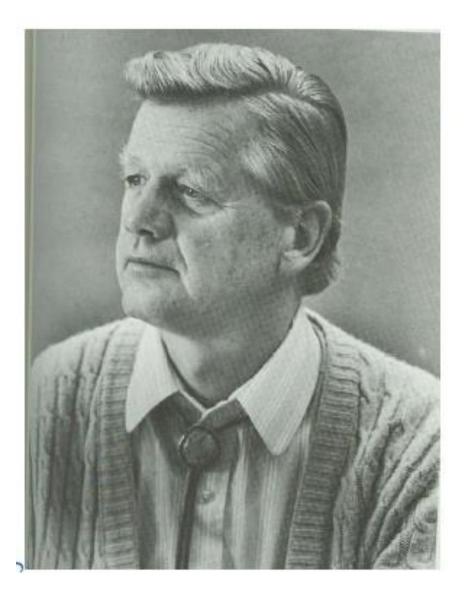


Comments Relative to My LA Medal Award

LA Medal Ceremony April 12, 2018

H. O. Menlove

Share Award with Two Parties



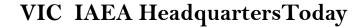
Bob Keepin

Founded the LANL Safeguards Progran on his return from the IAEA in 1966

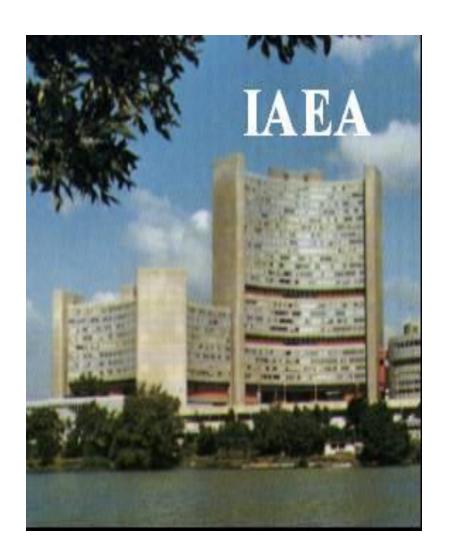
Bob took a change of station from LASL to be the IAEA Physics Division Director in 1963-66 where he became friends With the IAEA DG Sigvard Ecklund and he also saw the need for safeguards technical support

My Fateful Fulbright Award in 1966 to Karlsruhe

My Interview behind Grand Hotel On the Vienna Ring Strasse in 1967



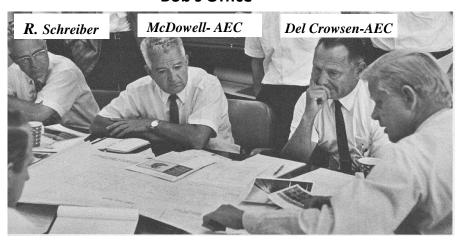




Ye Bob, I believe

Keepin's Deck Overlooking WR Canyon

Bob's Office

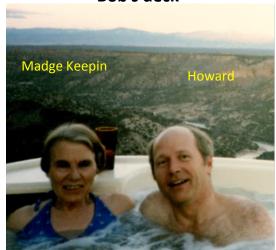


SSAC School Banquet at Keepin's House

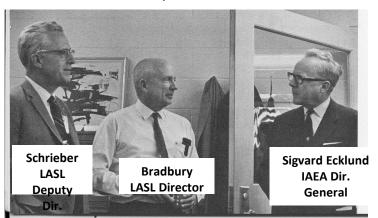




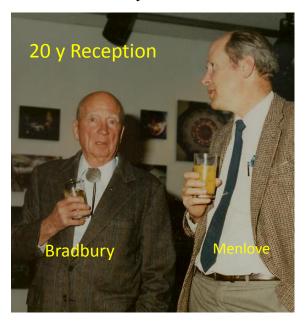
Bob's deck



YEAR 1



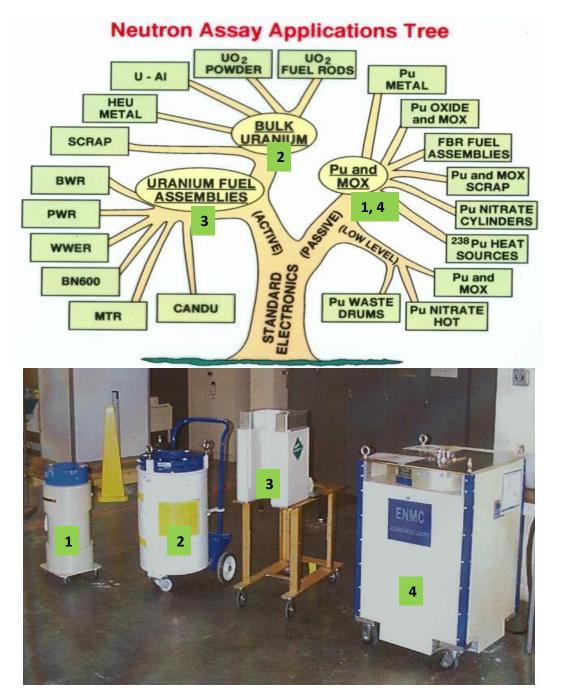
YEAR 20



Bradbury's Support

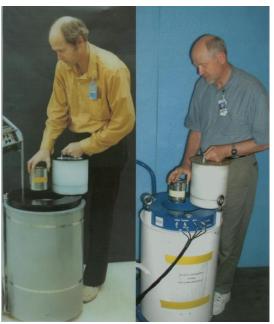
Bradbury's Nuclear Nonproliferation Support Factors

- Pressure to hold the Lab together after the end of war removed
- Pressure to meet bomb production numbers removed
- Personal goal to prevent future nuclear proliferation increased
- Keepin's Proposal and IAEA personal connections to Do a Godsend
- Bradbury supplied funding to establish the new Group (N-6)



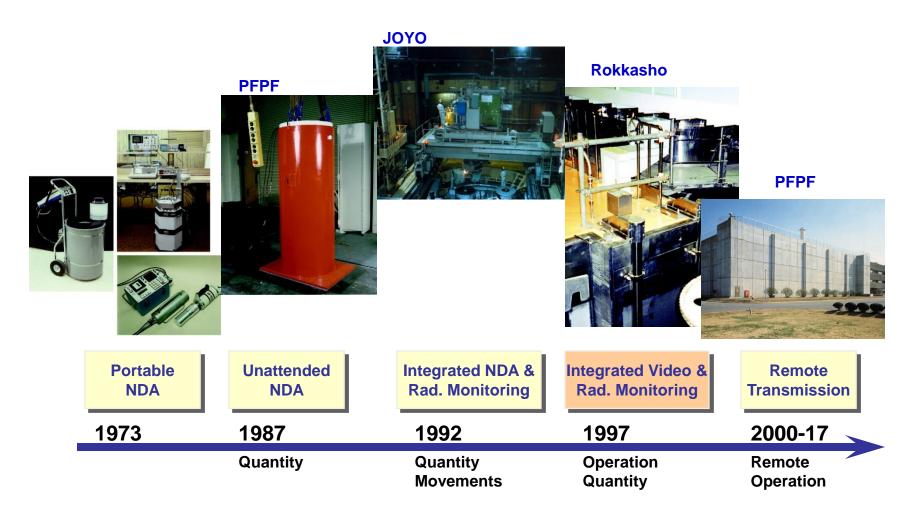
MY FIRST 25 YEARS

- Portable (sort of)
- Attended mode

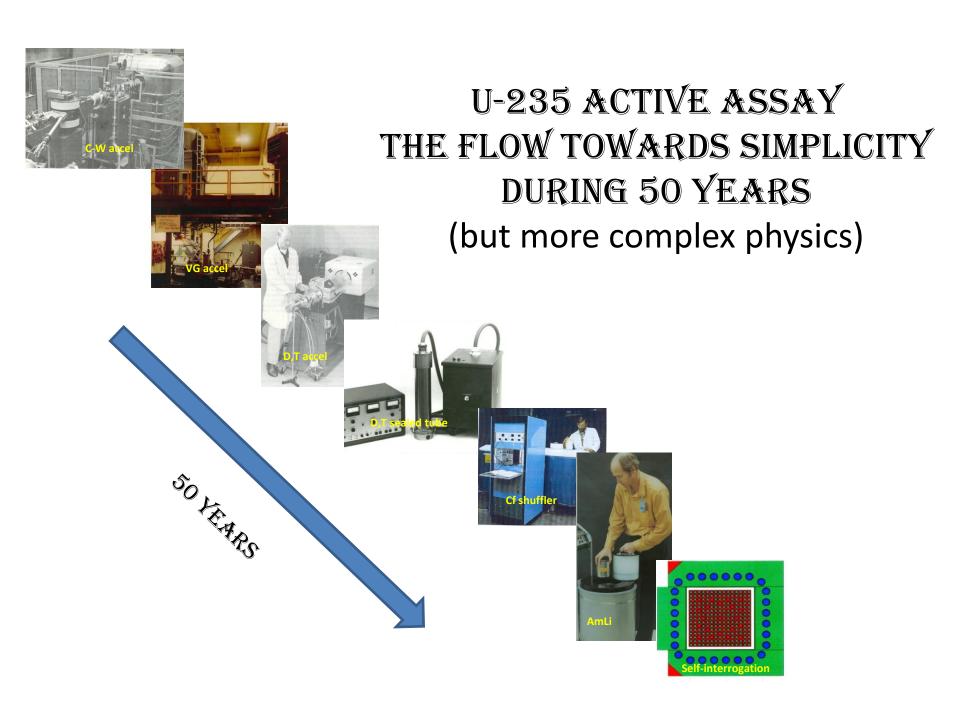


AWCC testing 25 years later

Evolution of NDA and Remote Monitoring (Training is a Continuing Requirement)

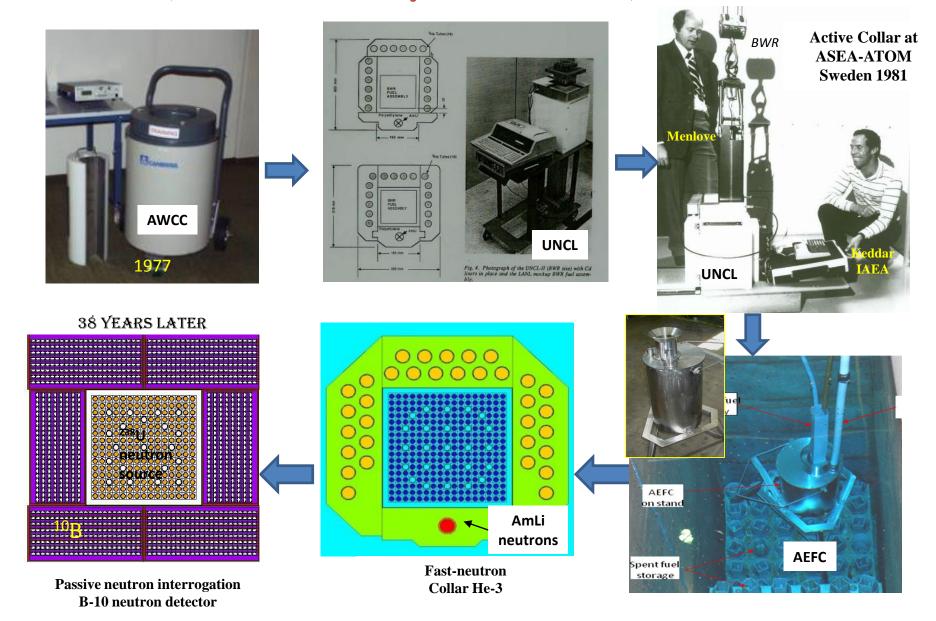


4 DECADES OF PROGRESS



Evolution vs. Revolution!

(²³⁵U fuel assembly measurements)



POST RETIREMENT QUESTION

(2005)

Mentoring?

or

Fishing?

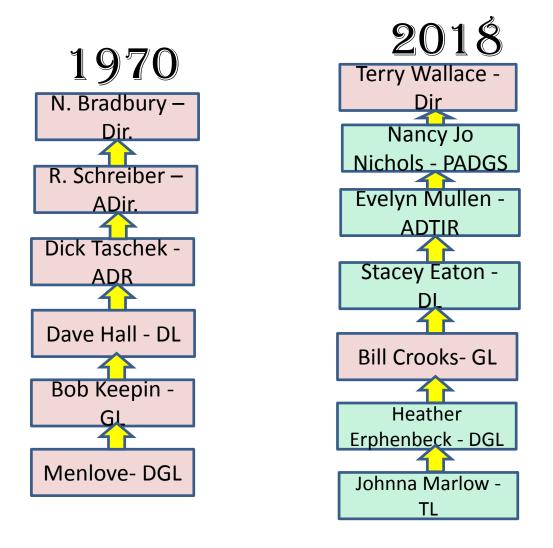




All the ladies are PhD Nuclear Engineers or Physicists

DEVELOPING THE FUTURE

My Line Management



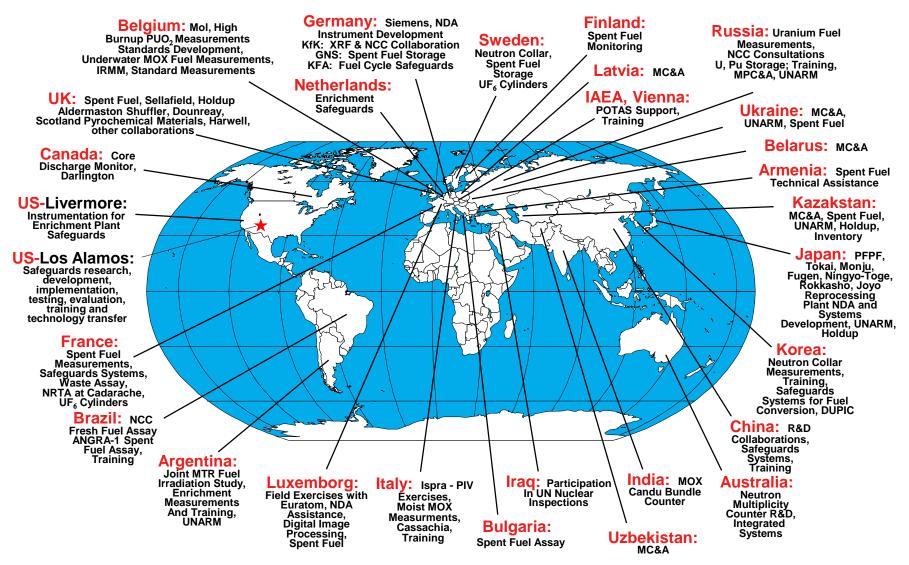
An A+ for LANL's Nuclear Safeguards and Nonproliferation diversity progress

Sexist Remark - Females are intrinsically more people sensitive than males (50 years of data)



International Safeguards Activities

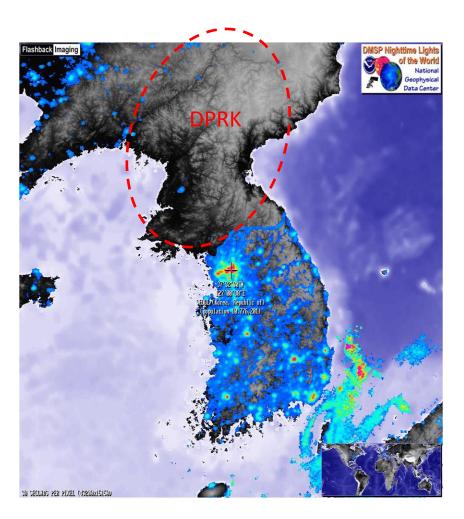




1992- 2018 Technical Support Resolving North Korea's SNM Questions



Verification Team Training For DPRK



"Defense Meteorological Satellite Program (DMSP) Nighttime Lights of the World." NOAA. 12 Aug 2000.

Key LANL Factors for LA Medal Award

- ✓ Allowing risk taking without penalties for failure
- ✓ Putting people ahead of technology
- ✓ Most new inovations come from the <u>bottom up</u> vs the top down However, funding comes from the <u>top down</u> (need flexibility)
- ✓ My 30 y of Japan reimbursible funding allowed for trying new solutions to many NDA targets with a short turnaround
- ✓ My Los Alamos Fellows Position was essential for my past 35 years of persuing my passion experimental evaluation of inovative NDA approaches.

Concluding Remarks

- My thanks to the several hundred retirees and NEN staff members who's work made this award possible
- The nonproliferation goal for the staff working in safeguards has always been a strong motivation factor
- The nuclear weapons component at LANL makes the Lab more relevant to future proliferation problems with adversarial states
- Keepin's original vision of making the world a safer place is still valid!

Thank You